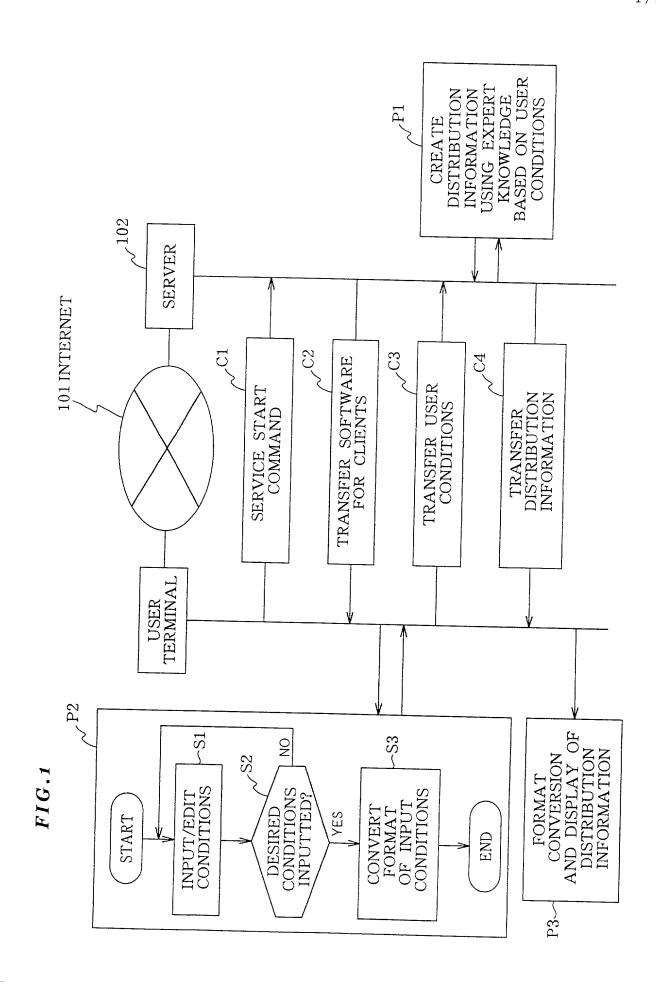
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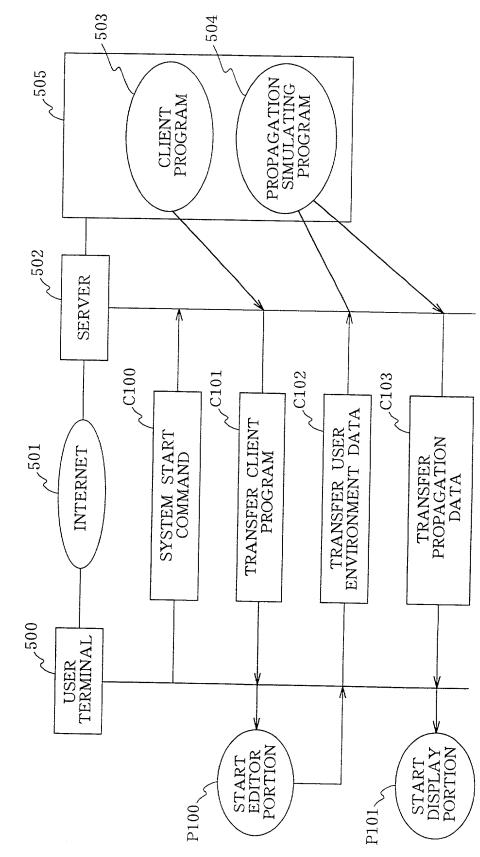


FIG. 3

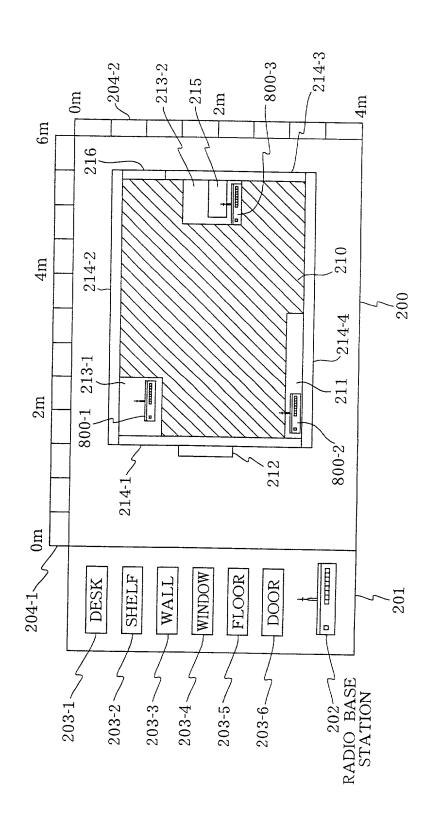
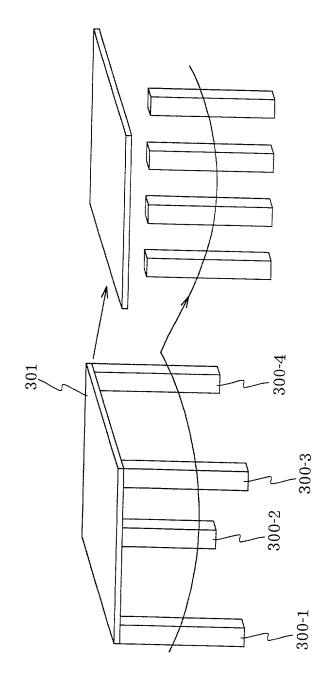


FIG.4





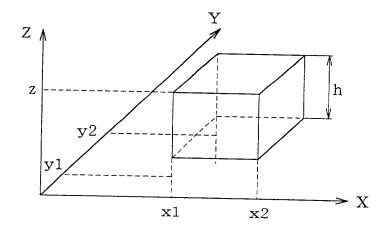


FIG.6

	PC	SITION	MATERIAL			
x 1	x 2	y1	у2	Z	h	WAIERIAL
1.5	2.1	1.2	1.2	1.2	0.05	METAL
1.5	1.6	1.2	1.3	1.15	0.8	TIMBER
:	:	:	•	:	:	:
2.0	2.1	1.2	1.3	1.15	0.8	TIMBER

FIG.7

POSI	ΓΙΟΝ(M	ETER)	ANTENNA	SENDING ELECTRIC
X	у	Z		POWER
3.0	1.5	1.0	DIBALL	100mW

FIG. 8

				DECEIDA	→ ELECTRIC POWER
	POSSIBLE	GOOD	VERY GOOD	VERY GOOD	RECEIPT ELECTRIC POWER THRESHOLD VALUE 3
	POSSIBLE	GOOD	VERY GOOD	VERY GOOD	
	IMPOSSIBLE	POSSIBLE	GOOD	GOOD	IPT RECEIPT FRIC ELECTRIC FER POWER HOLD THRESHOLD JE 1 VALUE 2
ARIANCE	IMPOSSIBLE	IMPOSSIBLE	POSSIBLE	POSSIBLE	RECEIPT ELECTRIC POWER THRESHOLD VALUE 1
DELAY VARIANCE	DELAY VARIANCE THRESHOLD	VALUE 3 DELAY VARIANCE	THRESHOLD VALUE 2 DELAY VARIANCE	THRESHOLD VALUE 1	1

FIG.9

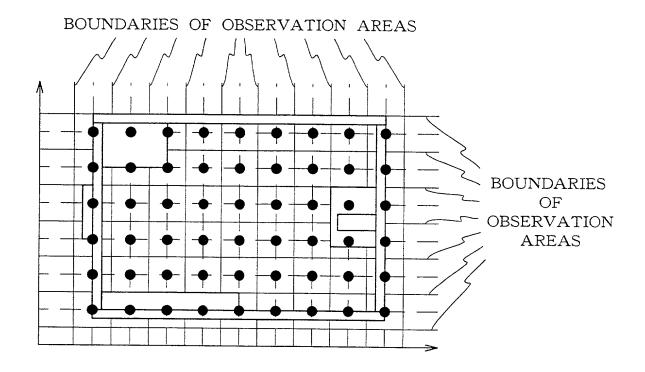


FIG.10

OBSE	OBSERVATION AREA								
HEIGHT ABOVE FLOOR	x1	x 2	у1	у2	COMMUNICATION POSSIBILITY				
	0 cm	10 cm	0 cm	10 cm	IMPOSSIBLE				
100 cm	0 cm	10 cm	10 cm	20 cm	POSSIBLE				
	0 cm	10 cm	20 cm	30 cm	GOOD				
	0 cm	10 cm	30 cm	40 cm	VERY GOOD				
	•	•	•	•	•				

FIG.11

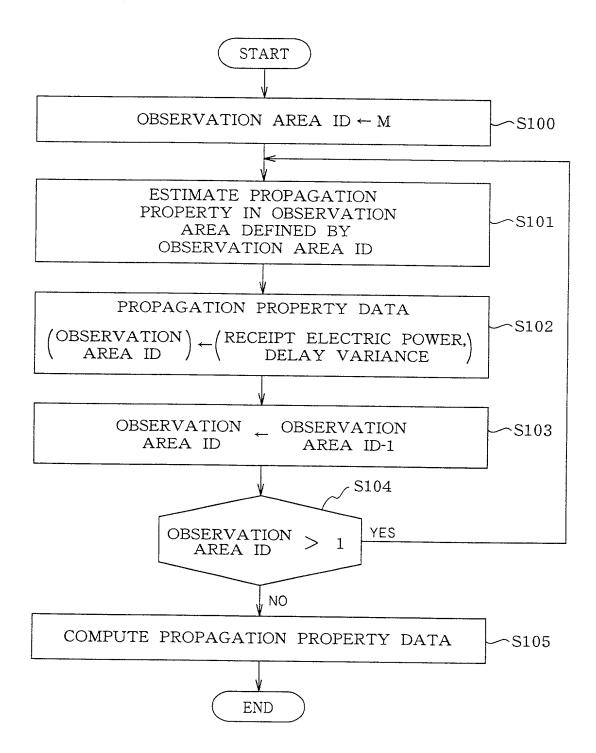


FIG.12

OBSERVATION AREA ID	RECEIPT ELECTRIC POWER	DELAY VARIANCE
1	-60 dBm	20 NANOSECONDS
2	-65 dBm	150 NANOSECONDS
3	-68 dBm	30 NANOSECONDS
4	-72 dBm	200 NANOSECONDS
5	-88 dBm	20 NANOSECONDS
•	•	•
M		

FIG.13

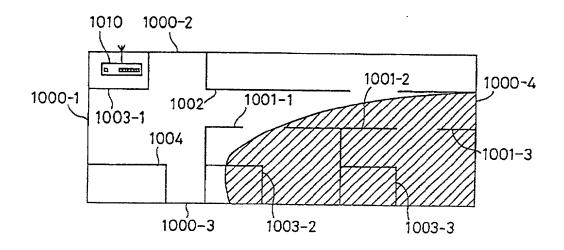


FIG.14

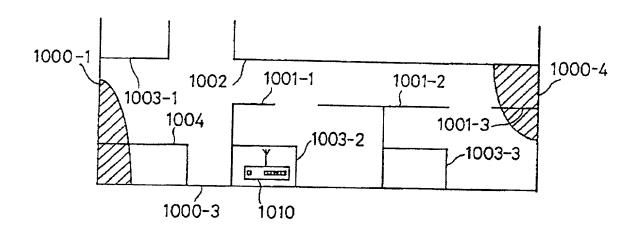


FIG.15

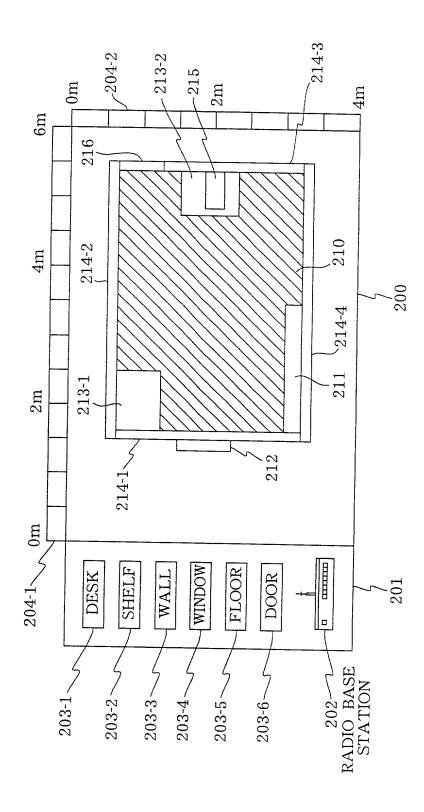


FIG. 16

TYPE OF SYSTEM	POSI	POSITION (METER)	STER)	ANTENNA	SENDING
	×	y	Z		POWER
HIGH SPEED WIRELESS LAN	2.0	1.0	1.0	DIBALL	100 mW
SHORT RANGE RADIO	3.0	2.0	1.0	DIBALL	1 mW
MICROWAVE OVEN	1.0	1.5	1.0		20 mW

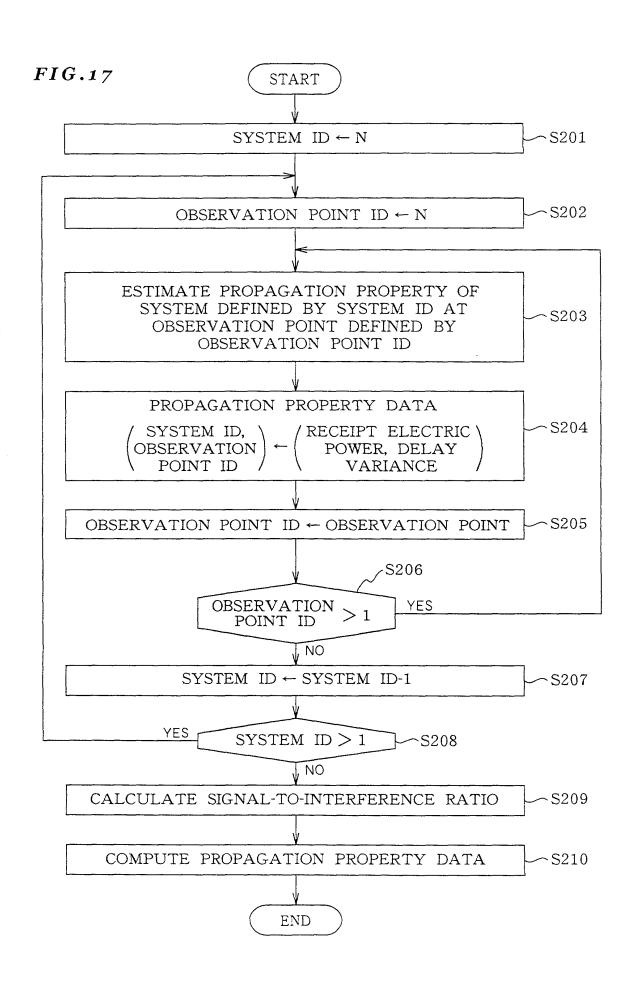


FIG. 18

,								V
[ID=3	DELAY VARIANCE	120 NANO SECONDS	80 NANO SECONDS	80 NANO SECONDS	100 NANO SECONDS	80 NANO SECONDS	• • • •	
SYSTEM ID=3	RECEIPT ELECTRIC POWER	88 dBm	–90 dBm	-88 dBm	—86 dBm	—88 dBm	• • • •	
SYSTEM ID=2	DELAY VARIANCE	20 NANO SECONDS	40 NANO SECONDS	80 NANO SECONDS	60 NANO SECONDS	20 NANO SECONDS	• • • •	
SYSTEN	RECEIPT ELECTRIC POWER	88 dBm	-88 dBm	-70 dBm	88 dBm	-70 dBm	• • • •	
¶ ID=1	DELAY VARIANCE	20 NANO SECONDS	150 NANO SECONDS	30 NANO SECONDS	200 NANO SECONDS	20 NANO SECONDS	• • • •	
SYSTEM ID=1	RECEIPT ELECTRIC POWER	60 dBm	–65 dBm	–68 dBm	-72 dBm	-88 dBm	• • • •	
	OBSERVATION POINT ID		2	က	4	വ	• • • •	M



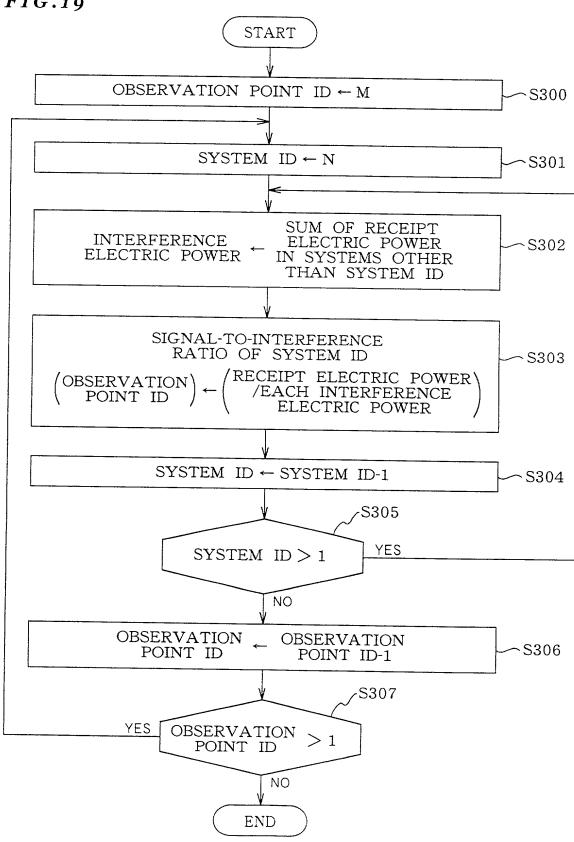


FIG.20

SYSTEM ID=3	TOTAL TOTAL IN-	-60dBm -28dB -28dB 0dB	-65dBm -25dB -25dB -2dB	-66dBm -22dB -20dB -18dB	-72dBm -14dB -14dB 2dB	-70dBm-18dB 0dB -18dB		•		
	CEIPT	-88dBm	-90dBm	-88dBm	-86dBm	-88dBm	•	•	•	
	TOTAL IN- IN- RE CI DIVIDUAL DIVIDUA ELE CI RATIO CI RATIO PC (ID=1) (ID=3)	gp0	2dB	18dB	-2dB	18dB	•	•	•	
D=2	IN- DIVIDUAL CI RATIO (ID=1)	-28dB	-23dB	-2dB	-16dB	18dB		•	•	
SYSTEM ID=2	TOTAL CI RATIO	-28dB	-23dB	-2dB	-16dB	15dB		•	•	
SYS	TOTAL INTER- FERENCI ELECTRI POWER	-60dBm -28dB	-65dBm -23dB	-68dBm	-72dBm -16dB	-85dBm 15dB	•	•	•	
	RECEIPT ELECTRIC POWER	-88dBm	-88dBm	-70dBm	-88dBm	0dB -70dBm	•	•	•	
	TOTAL IN- IN- CI DIVIDUAL DIVIDUA RATIO CI RATIO (ID=2) (ID=3)	28dB	25dB	20dB	14dB	0dB	•	•	•	
D=1	IN- DIVIDUAL CI RATIO (ID=2)	28dB	23dB	2dB	16dB	-18dB	•	•	•	
SYSTEM ID=1	TOTAL CI RATIO	25dB	21dB	2dB	12dB	-18dB	•	•	•	
SYS	TOTAL INTER- FERENCE ELECTRIC POWER	-60dBm -85dBm	65dBm -86dBm	-68dBm -70dBm	72dBm -84dBm	-88dBm -70dBm -18dB	•	•	•	
	RECEIPT ELECTRIC POWER	-60dBm	-65dBm	-68dBm	-72dBm	-88dBm	•	•	•	
	OBSERVATION ELECTRIC INTER- POINT ID POWER FERENCE FOUNTING POWER	-	2	ဇ	4	5				Σ

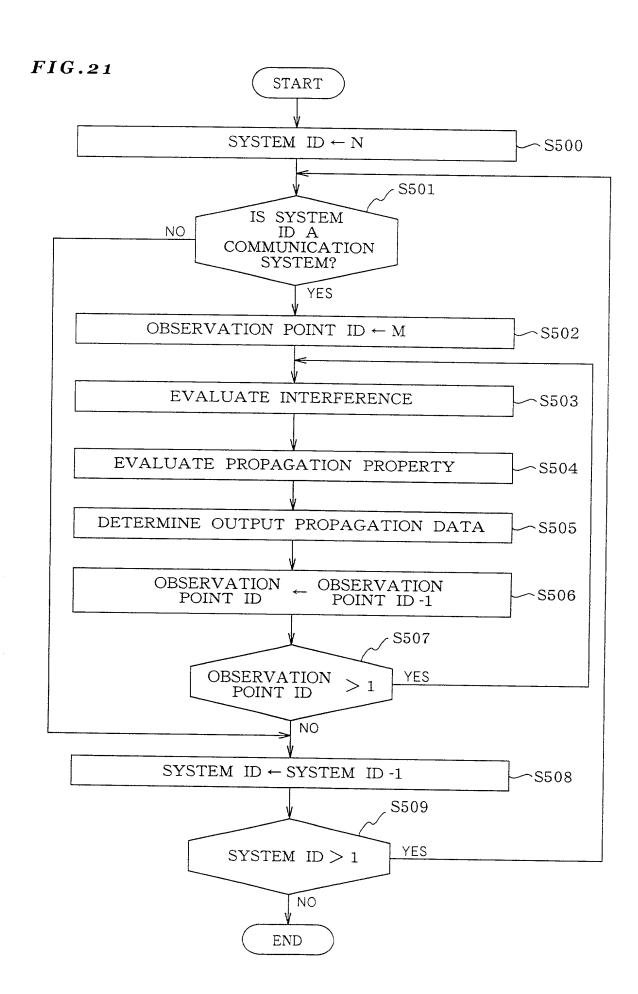


FIG.22

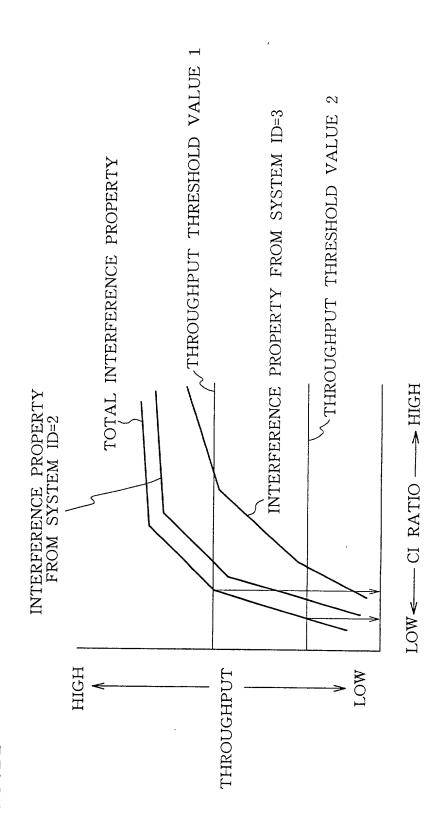


FIG.23

		Γ			-				
SIBILITY	SYSTEM ID=3	В	2	D	A		•	•	•
COMMUNICATION POSSIBILITY	SYSTEM ID=1 SYSTEM ID=2	A	D	C	В	•	•	•	•
COMMU	SYSTEM ID=1	C	A	D	В	•	•	•	•
	y2	10 cm	20 cm	30 cm	40 cm		•	•	•
	y1	10 cm 0 cm 10 cm	10 cm	10 cm 20 cm 30 cm	30 cm	•	•	•	•
REA	x2	10 cm	0 cm 10 cm 10 cm 20 cm	10 cm	0 cm 10 cm 30 cm 40 cm	•	•	•	•
YON A	x1x	0 cm	0 cm	0 cm	0 cm	•	• 1	•	•
OBSERVATION AREA	OBSERVATION POINT ID	-	2	အ	4	•	• •	•	•
	HEIGHT ABOVE FLOOR			100 cm					

FIG.24

INTERFERENCE DEGRADATION LEVEL RECEIPT POSSIBILITY	LARGE	MIDDLE	SMALL
VERY GOOD	D	В	A
GOOD	D	С	В
POSSIBLE	D	D	С
IMPOSSIBLE	D	D	D

FIG.25

COLOR NUMBER	NAME
CL000	LIGHT RED
CL001	LIGHT YELLOW
CL002	LIGHT GREEN
CL003	LIGHT BLUE
CL004	SLIGHTLY DARK RED
CL005	SLIGHTLY DARK YELLOW
CL006	SLIGHTLY DARK GREEN
CL007	SLIGHTLY DARK BLUE

1
NAME
SEMI-DARK RED
SEMI-DARK YELLOW
SEMI-DARK GREEN
SEMI-DARK BLUE
DARK RED
DARK YELLOW
DARK GREEN
DARK BLUE

FIG.26

DELAY	
VARIANCE	

VIIICI	THICL			
DELAY VARIANCE	CL015	CL011	CL007	CL003
THRESHOLD VALUE 3 DELAY VARIANCE	CL014	CL010	CL006	CL002
THRESHOLD VALUE 2 DELAY VARIANCE	CL013	CL009	CL005	CL001
THRESHOLD VALUE 1	CL012	CL008	CL004	CL000 RECEIPT
	POV	TRIC ELEC VER POV SHOLD THRES	TRIC ELEC WER POV SHOLD THRES	ELECTRIC EIPT POWER CTRIC WER SHOLD UE 3

FIG.27

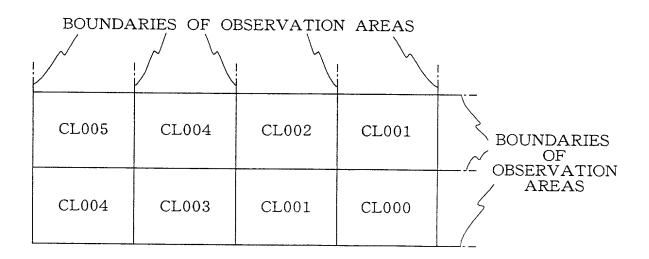


FIG.28

22-2-					
COLOR NUMBER	NAME				
CL000	RED				
CL001	YELLOWISH RED				
CL002	REDDISH YELLOW				
CL003	YELLOW				
CL004	BLUISH YELLOW				
CL005	YELLOWISH BLUE				
CL006	BLUE				
CL007	GREENISH BLUE				

COLOR NUMBER	NAME
CL008	BLUISH GREEN
CL009	GREEN
CL010	REDDISH GREEN
CL011	GREENISH RED
CL012	PALE RED
CL013	PALE YELLOW
CL014	PALE GREEN
CL015	PALE BLUE

FIG.29

DELAY VARIANCE

	 -				
DELAY VARIANCE	CL006	CL007	CL008	CL009	
THRESHOLD VALUE 3 DELAY VARIANCE THRESHOLD VALUE 2 DELAY VARIANCE	CL005	CL015	CL014	CL010	
	CL004	CL013	CL012	CL011	
THRESHOLD VALUE 1	CL003	CL002	CL001	CL000 RECEIF	
	RECE	EIPT RECI	EIPT RECI	ELECTI EIPT POWE	

RECEIPT RECEIPT RECEIPT
ELECTRIC ELECTRIC ELECTRIC
POWER POWER POWER
THRESHOLD THRESHOLD THRESHOLD
VALUE 1 VALUE 2 VALUE 3

FIG.30

INTERFERENCE DEGRADATION LEVEL RECEIPT POSSIBILITY	LARGE	MIDDLE	SMALL
VERY GOOD	CL002	CL001	CL000
GOOD	CL006	CL005	CL004
POSSIBLE	CL010	CL009	CL008
IMPOSSIBLE	CL014	CL013	CL012

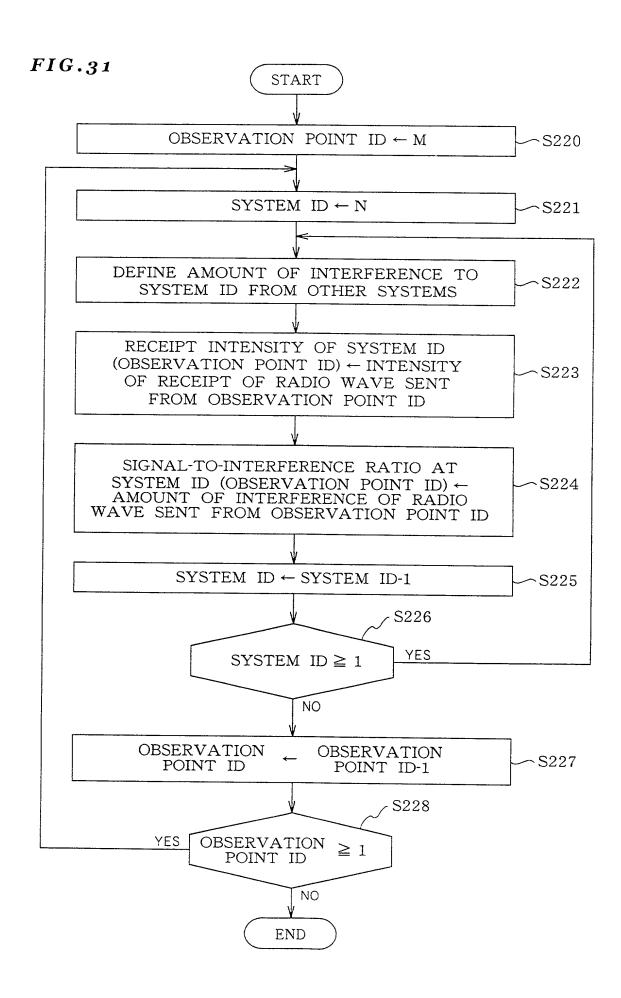


FIG. 32

[ID=2								
SYSTEM ID=2	•	•	•	•	•	•	• • •	
	SENDING POINT CI RATIO	10 dB	5 dB	2 dB	-2 dB	-18 dB	• • •	
SYSTEM ID=1	RECEIPT ELECTRIC POWER	—60 dBm	-65 dBm	-68 dBm	-72 dBm	88 dBm	• • •	
	TOTAL INTERFERENCE ELECTRIC POWER	-70 dBm	• • •					
OBSERVATION POINT ID			2	3	4	2	• • •	M

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The state of the s
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SYSTEM ID=2										FIG.33
	MIN (TOTAL CI RATIO, SENDING POINT CI RATIO)	INTERFERENCE DEGRADATION LEVEL	10 dB MIDDLE	5 dB LARGE	2 dB LARGE	-2 dB LARGE	-18 dB LARGE	• • •		INTERFERENCE DEGRADATION LEVEL FOR TWO-WAY COMMUNICATION BETWEEN SENDING POINT IDENTIFIABLE BY SYSTEM ID AND EACH OBSERVATION POINT
SYSTEM ID=1	TOTAL CI RATIO	INTERFERENCE DEGRADATION LEVEL	25 dB SMALL	21 dB SMALL	2 dB SMALL	12 dB MIDDLE	-18 dB LARGE	• • •		INTERFERENCE DEGRADATION LEVEL FOR ONE-WAY COMMUNICATION OF SENDING POINT IDENTIFIABLE BY SYSTEM ID→EACH OBSERVATION POINT
	SENDING POINT CI RATIO	INTERFERENCE DEGRADATION LEVEL	10 dB MIDDLE	5 dB LARGE	2 dB LARGE	-2 dB LARGE	-18 dB LARGE	• • •		CE ON E-WAY ON OF ATION CRENCE LEVEL LEVEL BY
	OBSERVATION POINT ID		1	2	3	4	5	• • •	M	INTERFEREN DEGRADATI LEVEL FOR ON COMMUNICATI EACH OBSERV, POINT—INTERFF DEGRADATION OF SENDING PC ENTIFIABLE SYSTEM I



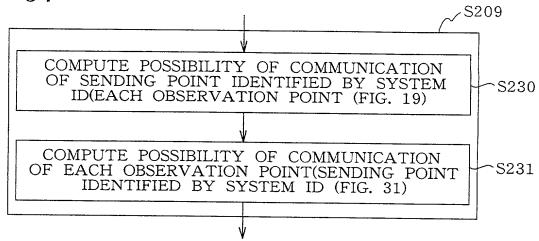


FIG.35

